

Project 4 CUDA Matrix Multiplication

In Project 4 you are to do a 16x16 matrix multiplication. The M matrix is all 1's. The N matrix is all 2's. This multiplication will be done using the CUDA toolkit from NVIDIA. Your reference is 2. Chapter 3 of the GPU text.

Start with the 2 CUDA tutorials. Installing CUDA Toolkit on Windows and Your First CUDA program.

Your Project Report is to include:

1. Introduction, what are you doing
2. Explanation of your implementation, 16 x 16 matrix multiplication, M = all one's, N=all two's, you calculate P, two ways
 - a. with C loops, Chap. 3, figure 3.4, p. 44
 - b. with CUDA , p. 50, Figure 3.10 (the framework), you need to insert the kernel into the framework, p. 52
3. Listing
4. Results
5. Conclusion